

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-13 (canceled)

14. (new): A shift catalyst comprising platinum, palladium, iron and cerium oxide on finely divided aluminum oxide.
15. (new): A shift catalyst according to claim 14, wherein the catalyst is deposited on an inert support in the form of a coating.
16. (new): A shift catalyst according to claim 15, wherein the catalyst further comprises iron and cerium oxide on the finely divided aluminum oxide in an amount of 1 to 50 weight % with respect to the total weight of the inert support.
17. (new): A shift catalyst according to claim 15, wherein the inert support is ceramic or metal, open-cell, ceramic or metallic foam elements, metal sheet, heat exchanger plates or irregularly shaped elements.
18. (new): A shift catalyst according to claim 14, wherein the catalyst operates at a temperature of between about 180 to 550°C.
19. (new): A shift catalyst according to claim 14, wherein a gas mixture containing from 2 to 40 vol.% of carbon monoxide is passed over the catalyst.
20. (new): A shift catalyst according to claim 19, wherein the catalyst operates at a temperature of between 180 and 300°C and the gas mixture contains 2 to 15 vol% carbon monoxide.

21. (new): A shift catalyst according to claim 20, wherein the gas mixture is passed over the catalyst at a space velocity between an idling space velocity and $100,000 \text{ h}^{-1}$ and at a pressure between atmospheric pressure and 10 bar, where the space velocity refers to volume of the inert support coated with the catalyst.
22. (new): A shift catalyst according to claim 21, wherein the space velocity ranges between idling space velocity and less than $60,000 \text{ h}^{-1}$.
23. (new): A shift catalyst according to claim 18, wherein the operating temperature of the shift catalyst lies between 280 and 550°C .
24. (new): A first shift catalyst comprising platinum, palladium, iron and cerium oxide on finely divided aluminum oxide, the first shift catalyst having an operating temperature of between 280 and 550°C and a second shift catalyst with an operating temperature between 180 and 300°C .
25. (new): A first and second shift catalyst according to claim 24, wherein a gas mixture having a temperature between 300 and 600°C enters the first shift catalyst and is then passed over the second shift catalyst, wherein the gas mixture is cooled to the operating temperature of the second shift catalyst before contact with it.
26. (new): A shift catalyst according to claim 14, wherein the catalyst is insensitive to oxygen in an educt gas mixture.
27. (new): A shift catalyst according to claim 14, wherein the catalyst is not deactivated by contact with oxygen.
28. (new): A method for operating a shift catalyst according to claim 14, wherein the catalyst is insensitive to oxygen in an educt gas mixture.